



**ABSTRACT**

5           A digital imaging device captures an image  
and generates a color signal from the image for  
application to an output device having specific color  
sensitivities, the imaging device further being one of  
many devices of the same type useful with the output  
10 device. The digital imaging device, for example a  
digital camera, includes a color sensor for capturing  
the image and generating a color signal from the  
captured image, the color sensor having predetermined  
spectral sensitivities, and an optical section that is  
15 interposed in the image light directed to the color  
sensor, the optical section also having predetermined  
spectral characteristics. The combination of the  
spectral sensitivities of the color sensor and the  
spectral characteristics of the optical section  
20 uniquely distinguish this particular imaging device  
from other imaging devices of the same type. By  
providing a set of matrix coefficients uniquely  
determined for this imaging device, the matrix  
coefficients optimally correct the spectral  
25 sensitivities of the color sensor and the spectral  
characteristics of the optical section for the color  
sensitivities of the output device.

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